Internal Application No PCT/EP2004/012471

A. CLASSIFI	CATION OF SUBJECT	MATTER
IPC 7	G01N33/574	C12Q1/68

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

 $\begin{array}{ll} \mbox{Minimum documentation searched (classification system followed by classification symbols)} \\ \mbox{IPC 7} & \mbox{G01N} & \mbox{C12Q} \end{array}$

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS, WPI Data, EMBASE

Category °	Citation of document, with indication, where appropriate, of the	relevant passages	Relevant to claim No.
Y	WO 03/039443 A (DEUTSCHES KREBS; HAFERLACH TORSTEN (DE); EILS EK) 15 May 2003 (2003-05-15) the whole document in particular Examples 4, 6 and	ROLAND (DE);	1-27
X Furt	I her documents are listed in the continuation of box C.	X Patent family members are listed	in annex.
"A" docum consid "E" earlier filling o "L" docum which citatio "O" docum other "P" docum later t	ent which may throw doubts on priority claim(s) or is cited to establish the publication date of another in or other special reason (as specified) ent referring to an oral disclosure, use, exhibition or means ent published prior to the international filing date but han the priority date claimed actual completion of the international search	"T" later document published after the integration or priority date and not in conflict with cited to understand the principle or the invention "X" document of particular relevance; the cannot be considered novel or cannot involve an inventive step when the document of particular relevance; the cannot be considered to involve an indocument is combined with one or ments, such combination being obvious in the art. "&" document member of the same patent Date of mailing of the international search.	the application but early underlying the claimed invention to considered to coment is taken alone claimed invention eventive step when the ore other such docutus to a person skilled family
	8 March 2005		
Name and	mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Thumb, W	

International Application No
PCT/EP2004/012471

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Category °	ation) DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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International Application No
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Category °	ation) DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Category	Citation of document, with indication, where appropriate, of the relevant passages	· ·
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Υ	SCHOCH CLAUDIA ET AL: "Acute myeloid leukemia with recurring chromosome abnormalities as defined by the WHO-classification: Incidence of subgroups, additional genetic abnormalities, FAB subtypes and age distribution in an unselected series of 1,897 patients with acute myeloid leukemia." HAEMATOLOGICA, vol. 88, no. 3, March 2003 (2003-03), pages 351-353, XP009025472 ISSN: 0390-6078 (ISSN print) the whole document	1-27
Υ	KOHLMANN A ET AL: "MOLECULAR CHARACTERIZATION OF ACUTE LEUKEMIAS BY USE OF MICROARRAY TECHNOLOGY" GENES, CHROMOSOMES & CANCER, XX, XX, vol. 37, no. 4, August 2003 (2003-08), pages 396-405, XP008025253 the whole document in particular table 2 -/	1-27

Form PCT/ISA/210 (continuation of second sheet) (January 2004)

International Application No
PCT/EP2004/012471

Relevant to claim No.
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International application No. PCT/EP2004/012471

INTERNATIONAL SEARCH REPORT

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)			
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:			
1. X Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely: Article 52 (2)(d) EPC - Presentation of information The claims were only searched with regards to the underlying method of generating a reference data base for distinguishing leukemia subtypes. 2. Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:			
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a). Box III Observations where unity of invention is lacking (Continuation of Item 3 of Iirst sheet)			
This International Searching Authority found multiple inventions in this international application, as follows:			
see additional sheet			
As all required additional search fees were timely paid by the applicant, this international Search Report covers all searchable claims.			
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.			
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:			
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the Invention first mentioned in the claims; it is covered by claims Nos.: 1-27 (partially)			
Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.			

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-27 (partially)

A method for distinguishing WHO-classified AML subtypes AML MLL, t(15;17), t(8;21), inv(16), 11q23, de novo AML, s \overline{AML} , t \overline{AML} , AML MO, AML M1, AML M2, AML M4, AML M5a, AML M5b, AML M6, \overline{AML} t(15;17)/M3 and/or \overline{AML} t(15;17)/M3v, the method comprising determining the expression level of the marker BCAT1. Use of said marker for the manufacture of a diagnostic. A diagnostic kit containing said marker and an apparatus comprising a reference data bank, wherein the reference data bank is obtainable by determining the expression level of BCAT1.

2. claims: 1-27 (all partially)

Inventions 2-2450
Methods for distinguishing WHO-classified AML subtypes
AML MLL, t(15;17), t(8;21), inv(16), 11q23, de novo AML,
s AML, t AML, AML MO, AML M1, AML M2, AML M4, AML M5a,
AML M5b, AML M6, AML t(15;17)/M3 and/or AML t(15;17)/M3v,
and methods for distinguishing specific subtypes against all
other AML subtypes and against each other, the method
comprising determining individually the expression level of
the markers listed in tables 1.1, positions 2-50, and in
tables 2-7. Use of said markers for the manufacture of
diagnostics. Diagnostic kits containing said markers and
apparatus' comprising a reference data bank, wherein the
reference data bank is obtainable by determining the
expression levels of said markers.

International Application No	
PCT/EP2004/012471	

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